

The Roasting and Agglomeration of Dusts and
Pulverized Minerals in the Saint-Jacques Furnace,
2 pp.

GERMAN, per, Metal und Erz, Vol XXXIII, No 6,
1936, pp 153, 154.

S. L. A. Tr 662/56 also 243

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Sci - Min/Metals
Aug 56 OVB/SM

The Zinc Plant at Magdeburg, by W. Haenig, ~~XI~~⁹ pp.
XXXIII, No 9,
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pp 274-279.

SLA Tr 1818 Jan 1957
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E. Kohlmeyer.

GERMAN, per, Metall und Erz, No 15, 1936,
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CSIRO/No 5886

Sci-M/M
Mar 63

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Recovery of Nickel From Low Grade Ores, by
H. Borchers.

GERMAN, per, Metall und Erz, Vol XXX II,
No 16, 1936, pp 433-441.

CRL/T.726

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Scientific Basis of Tin Smelting, by
J. Klauding.

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1937, pp 164-169, 556-558, 580-584.

CSIRO/No. 5687

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Mar 63

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Electric Heating in the Light Metal Industry, by
Fr. Knoops, 12 p.

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pp 453-460.

SLA 59-20657

Sci
Mar 60
Vol 3, No 1

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by W. Siecke, 7 pp.

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GERMAN, per, Natrol und Kres, Vol-III, 1937, pp 532-
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Sci - Chem
Apr 1957

SIA Tr 162 Jun 1257
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p. 1-8.

S.L.A. # 624/56

CL - H1v/Metals

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S.L.A. Tr No 211/1955

Sci - Minerals/Metals
Jan 1957 CTB/dex

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Metallurgical Use of Anhydrous Chlorides. Their
Production and Properties, by W. Kroll, 41 pp.

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pp 101-106; No 5, 1939, pp 125-131.

S. L. A. Tr 626/56

Sci - Min/Met

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Aug 56 CMM/dex

The Development and Fundamentals of Metallurgical
Processes in Blast Furnaces, by F. Johansson, 11 pp.

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pp. p 325,

No 12

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Sci - Materials/Metals
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A New Method for the Determination of the Ease of
Decomposition (Extractivity?) of Bauxite, by A. A.
Dalyannis, 11 pp.

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S.L.A. Tr 129

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Scientific - Minerals/Metals

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INVESTIGATION OF THE ELECTROLYSIS OF
COPAL. [1963] 29p. 37 refs.
Order from SLA \$2.60

63-16853

Trans. from [Metall und Erz (Germany) 1942, v. 39,
p. 7-13, 28-32].

DESCRIPTORS: *Cobalt, *Electrolysis, Electrolytes,
Cobalt compounds, Chlorides, Sulfates, Manufacturing
methods.

(Metallurgy--Nonferrous Metals, TT, v. 10, no. 7)

63-16853

I. Roentgen, P.
II. Gleesen, K.

Office of Technical Services

Measurements of Viscosity of a Lead Slag in Relation
to Temperature and Degree of Zinc Elimination When
Blowing With Coal Dust and Air, by J. Irenthal,
R. Fichte, 15 pp.

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Sci - Min/Met
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AND COPPER CONVERTER GASES. [1962] Sp.
Order from SLA \$1.10

Trans. of Metall und Erz (Germany) 1944, v. 41,
no. 17/18, p. 203-205.

DESCRIPTORS: *Ores, *Pyrites, *Copper, Furnaces,
*Waste gases, *Sulfur compounds, Oxides, Production.

(Metallurgy, TT, v. 9, no. 9)

62-18520

Tzschaschel, H.

(Office of Technical Services)

Corrosion and Corrosion Resistant Alloys for the
Cellulose and Paper Industry, by F. Ohl, 20 pp.

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May 23/Jun 6 1934, pp 645-6547, TIA.

S. L. A. Tr 639/36

Sci - Min/Metals
Aug 56 CIB/6ex

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GERMAN, per, Metallforschung, 1, 1946,
pp. 47-53.
*NBS TT 70-57866

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Structure and Micro-Hardness of the Binary
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Tantalum, Molybdenum and Tungsten, by H.
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1946, pp 53-56.

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Sci - Minerals/Metals
CTS 75/Dec 55

The Protection of the Surfaces of Metals With
High Melting Points to Improve Their Annealing
Properties at High Temperatures, by H. Buckle,
10 pp.

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81-85.

AEC/DOHL-T/C-87

Sci - Min/Met

Nov 58

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II, by H. Buckle, 7 pp.
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pp. 175-181.
*NBS TT 70-57865

Sci/mat June 70

The Effect of Sonic and Ultrasonic Oscillations
on the Structure of Magnesium-Aluminum Alloys
With 4-12% Al, by C. Seibert. GCL

GERMAN, per, Metallforschung, Vol I, No 4/5,
Oct/Nov 1946.

British Iron and Steel Ind
(no number given)

Sci - Phys
Sep 59

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Reinvestigation of the Systems Cerium-Magnesium
and Lanthanum-Magnesium, by Rudolf Vogel, Theo.
Heumann, 29 pp.

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SIA Tr 793/1955

Sci - Min/Met

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Jul 57

On the Influence of a Third element in the
Case of Diffusion in Metals, by J. Hauk

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*CFSTI TT 70-58123
AVAILABLE FROM NBS ONLY

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On the Effect of Loading on the Hazard of
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Matthaeus.

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~~XIII~~ pp 213-225.

Navy Tr No 1405/Buships 625

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Sci - Min/Metals
Jan 57 CTS/dex

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pp 274-280.

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Sci - Min/Met
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GERMAN, per, Metallforschung, Vol II, No 10, 1947,
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R.A.E., FARNBOROUGH Trans 408

ERu - Germany
Scientific -

Index Aeronauticus

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On the Press Effect of the Al-Zn-Mg Alloy Hy 43 with 4.5%
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GERMAN, Metallforsch., 2 (11), 331-340, 1947 Oct.

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B-744-81-52 OP/198

Scientific-Metallurgy

Metal Research in the Moscow Electro Plant, 11 pp.

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GERMAN, rpt, Die Metallforschung in Elektrowerk
Moskow, 10 pp. CIA 604351

ATIC F-18-9297/III

Sci - Min/Mat

537-86

Nov 57

Fischer, J., Zettler, H., and Dörla, A.
QUANTITATIVE DETERMINATION OF LITHIUM IN
MINERALS AND INTERMEDIATE PRODUCTS. II.
FLAME SPECTROMETRIC METHODS.
24 Apr 56 [18p].
Order from SLA \$1.60

62-18960

Trans. of Metallgesellschaft A. G., Frankfurt a.M.
TS Rept. no. 2114, rev. ed., 20 Jan 54.

DESCRIPTORS: *Lithium, Quantitative analysis,
Minerals, *Flames, *Spectrographic analysis.

62-18960

I. Fischer, J.
II. Zettler, H.
III. Dörla, A.
IV. Title: Flame -
spectrometric...

(Chemistry--Analytical, TT, v. 9, no. 11)

Office of Technical Services

<p>Richter, H. and Winterz, P. INVESTIGATION OF ALLOYS OF ZIRCONIUM WITH NIOBIUM AND TIN IN VIEW OF THEIR UTILIZATION AS SHEATHING MATERIAL IN WATER-COOLED NUCLEAR REACTORS: EXAMINATION OF TUBES MADE OF THE ALLOY ZrNb₃Sn₁. Special technical rep. 3 concerning proposal 139, on Contract 047-61-4 RDA. [1963] 36p. 12 refs. Order from OTS or SLA \$3.60 EURABC-354</p> <p>Trans. of rep. from Metallgesellschaft A. G., Frankfurt a. M. (West Germany) 18 May 62.</p> <p>DESCRIPTORS: *Light water reactors, *Niobium alloys, *Tin alloys, *Reactor fuel cladding, Nuclear reactors, Zirconium alloys, Heat resistant metals and alloys, Water, Reactor coolants.</p> <p>The alloy ZrNb₃Sn₁ which, in corrosion tests and mechanical tests, had proved to be a promising (Nuclear Physics--Nuclear Engineering, TT, v. 10, no.6) (over)</p>	<p>6-15736</p> <p>I. Richter, H. II. Winterz, P. III. Title. Examination ... IV. EURABC-354 V. European Atomic Energy Community, Brussels (Belgium)</p> <p>Office of Technical Services</p> <p>✓</p>
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Richter, H., Tverberg, J. C. and others.
INVESTIGATION [ON ALLOYS OF ZIRCONIUM] WITH
NIOBIUM AND TIN WITH RESPECT TO THEIR USE
AS CLADDOING MATERIAL IN WATERCOOLED NU-
CLEAR REACTORS. Quarterly rept. [7] 3 (2d year),
1 Oct-31 Dec 61, on Contract 047-61-4 RDA. [1962]
65p. 14 refs.
Order from OTS or SLA \$6.60 EURAFC-243

Trans. of a rept. (E-2348) from Metallgesellschaft
A.G., Frankfurt am Main (West Germany) 22 Jan 62.

DESCRIPTORS: *Zirconium alloys, *Niobium alloys, *Tin
alloys, Fuel cladding, *Nuclear reactors, Corrosion,
Tests, Hydrogen, Cold-working, Creep, Welding,
Solubility, Light water reactors, *Reactor fuel cladding,
*Reactor materials.

(Nuclear Physics--Nuclear Engineering, TT, v. 9,
no. 12) (over)

63-15073

- I. Richter, H.
- II. Tverberg, J. C.
- III. EURAFC-243
- IV. EURATOM (Belgium)

Wise of Technical Services

卷之三

- I. Andriko, K.
 - II. Dr. J. L. J.
 - III. Schlegel, M.-A.
 - IV. TURALCZ
 - V. FOUQUET (Belgium)

卷之三十一

Transcription from Microfilm reel 1000-
1000-N-14 (West Germany) 18 July 60.

Keywords: • Nuclear reactors, Protective coatings, • Microalloys, • Nitriding alloys, • Spheroidizing alloys, Preparation, Metallurgical analysis, Corrosion research.

Several heating processes were tried for the metallographic examination to determine which would be the most appropriate for the various alloys. The zirconium- β -alumina-NiCr₃ system, $E_1 = 0.9$, $E_2 = 0.1$.

Office of Technical Services

AKHIEZER, E., et al. KINETIK DER VERSCHLEISSE.
INVESTIGATION ON ALLOYS OF TIRCONIUM WITH
NIOBIUM AND WITH SILICON IN VIEW OF THEIR USE
AS SMOOTHING MATERIAL IN WATERCOOLED
NUCLEAR REACTORS. Quarterly rept. no. 2. (1962)
Sip. 22 refs. Supersedes TID 2477.
Order from GTS or SLA \$5.66. EURAG-C-27

Transl. of a rept. from Metallgesellschaft AG, Frankfurt (M., West Germany). Oct 60.

DESCRIPTION: *Nuclear reactors, Protective covering,
*Tirconium alloys, *Niobium alloys, *Silicon alloys,
Preparation, Solubility, Cracks (Metallurgy), Corrosion
research, Creep, Tensile properties.

An investigation was made on the constitution of binary
 γ -Nb alloys. The solubility of niobium in titanium
was highest at about 590°C, in alloys containing 10% Nb.
(Nuclear Physics--Nuclear Engineering, TI, v. 2, no. 4)

52-32472

1. ARGONNE NATIONAL LABORATORY
2. TID 2477 superseded
3. 1962 NOV 1962
4. EURAG-C-27

Office of Technical Services

Anderko, K., Jung-König, W. and others.
INVESTIGATION ON ALLOYS OF ZIRCONIUM WITH
NIOBIUM AND/OR SILICON IN VIEW OF THEIR USE
AS SHEATHING MATERIAL IN WATER-COOLED
NUCLEAR REACTORS. Quarterly rept. no. 3.
(1962) 34p. 11 refs. Supersedes TID-12 478,
Order from OTS or SLA \$3.60 EURABE-R5

Trans. of 1 rept. from Metallgesellschaft A. G.,
Frankfurt a. M. (West Germany) 5 J in 61.

DESCRIPTORS: *Nuclear reactors, Protective
coverings, *Zirconium alloys, *Niobium alloys,
*Silicon alloys, Annealing, Solubility, Grains
(Metallurgy), Corrosion research, Creep.

Investigation of Zr-Nb system was resumed and the
results of the previous investigation were confirmed.
The temperature dependence of the solubility of
niobium in the mixed crystal of Zr-zirconium was
(Nuclear Physics-Nuclear Engineering, TI, v. 9,
no. 3) (over)

62-32017

I. Anderko, K.
II. Jun.-König, W.
III. EURABE-R5
IV. EURATOM (Belgium)
V. TID-12 478,
or superseded

BRS - d. Technical Services

On the Constitution of Zirconium-Niobium Alloys,
31 pp.

GERMAN, rpt, Metallgesellschaft A. G.
15 Aug 1961.

EURAEC-137

Sci

Apr 63

Anderko, K., Jung-Konig, W. and others.
INVESTIGATION ON ALLOYS OF TIRCONIUM WITH
NIOBIUM AND/OR SILICON WITH A VIEW TO THEIR
USE AS CLADDING MATERIAL IN WATER-COOLED
NUCLEAR REACTORS. Quarterly rept. no. 3.
(Jan.-31 Mar. 61). [1962] 8 p. 18 refs.
Order from DTIC or SLA \$8.10 EURAEC-86

Trans. of rept. from Metallgesellschaft A. G.,
Frankfurt (Main), Germany, 17 April 1961.

DEUTSCHLAND: *Light water reactors, *Fuel elements,
*Fuel rods, Materials, *Tirconium dioxide,
Niobium Dioxides, Alloys, Alloys, Solubility,
corrosion, Corrosion (Mechanics), Tests, Nuclear
reactors.

(Nucleonics & Nuclear Engineering) TT, v. 9,
no. 3.

62-32029

I. Anderko, K.
II. Jung-Konig, W.
III. EURAEC-86
IV. EURATOM (Belgium)

Trans. of Tech. Rep. 17

On the Constitution of Zirconium-Nickel Alloys,
31 pp.

GERMAN, rpt, Metallgesellschaft A. G.
15 Aug 1961,

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See

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		62-33167
Richter, H., Winclerz, P., and Zwicker, U. [INVESTIGATION ON] ALLOYS OF ZIRCONIUM WITH NIOBIUM AND/OR SILICON WITH A VIEW TO THEIR USE AS CLADDING MATERIAL IN WATER-COOLED NUCLEAR REACTORS. (Quarterly rept. no. 6, 1 July- 30 Sep 61 and technical rept. to pt. 2 "Length Vari- ations in Zirconium Alloys caused by Thermal Cycling" on Contract EUR/C/262/2/60 d (009-60-4 RDA). [1962] 24p, 10 refs, Order from OTS or ST A \$2.60		EURABC-201
Trans. of a rept. from Metallgesellschaft A.G., Frankfurt a. M. (West Germany) 10 Oct 61.		
DESCRIPTORS: *Light water reactors, *Fuel elements, *Fuel cladding, Materials, *Zirconium alloys, Nio- bium alloys, Silicon alloys, Alloys, Temperature, Thermal expansion, Tests, Nuclear reactors.		
(Nuclear Physics--Nuclear Engineering. TT, v. 9, no. 2)		(over)
		Office of Technical Services

1959 Annual Report of Vereinigte Deutsche Metallwerke AG (VDM), 14 pp.

GERMAN, rpt, Metallgesellschaft Subsidiary,
1 Oct 1958-30 Sep 1959.

CIA/FDD XX-874

Sci - Min/Met

EEur - Germany
Aug 60

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USIB INTERNAL USE ONLY

The Electrolytic Pilot Plant at the Krughütte,
Eisleben, by W. Borchers, 6 pp.

GERMAN, per, Metallhüttenbetriebe, Vol I, Halle,
Knapp, 1915, pp390-437.

S.L.A. Tr 423/1956

Sci - Chemistry, Indexes Dr:n/Mt:t/s

Jun 1956

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TT-65-12752

Field 11F

Merz, A.; Kotsch, H.
THE RESISTANCE TO MOLTEN METALS OF METAL
BORIDES, ESPECIALLY ZIRCONIUM BORIDE. 15p, 14refs.
Order from SLA: \$1.60 as TT-65-12752

Trans. from mono. Metallische Spezialwerkstoffe, pub. by
Akademie Verlag, Berlin, 1963, p68-77.

TT-65-12752

I. Merz, A.
II. Kotsch, H.

MI 640

Uranium, by E. Kohl, 13 pp.

GERMAN, per, Die Metallischen Rohstoffe,
Vol X, Stuttgart, 1954, p 139, 158, 179,
201, Encl to Comnavger 861-66. CIA D
323689.

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NAVY TO

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EEur - Germany, Bulgaria, Estonia, Poland
Czechoslovakia

Econ
Sci - Minerals/Metals

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(R&D 1898)

Selections From "Metallic Raw Materials, Their Deposits and Their Economic Importance .. Anti-money," by Heinrich Guiring (Germany), 47 pp.

GERMANY, bk. Die Metallischen Rohstoffe, Vol VII,
Stuttgart, 1945, pp 83-94, 119-126, 131-134.

CIA/PDD/U-5523

EDB - Germany

BCCR

10,388 Feb 54

The Soviet Union, by Dr. E. Kohl, 10 pp.

GERMAN, per, Die Metallischen Rohstoffe, Vol X,
1954, Stuttgart, p 107, Encl to Serial No 253-55,
Commander M APO 483, 28 Jul 1955. CIA D 298639

Navy Tr

29307

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Economic - Uranium Dec 55 CMB/DEX

On the Tungsten-Carbon System, by K. Becker, 22 pp.

GERMAN, per, Metallkunde, Vol XX, No 12, Dec 1928,
pp 437-441.

SLA TR 57-329

Sci - Min/Met

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Sep 57

The Superconductivity of Alloys, by G. Tammann,
5 pp.

GERMAN, ~~Metallkunde~~, Vol XXVI, No 3, 1934, p 61.
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CIA 237764

SIA Tr 1807 Jun 1957

Sci - Min/Met
Apr 1957

NRL 171

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Observations on the Hardening and Fatigue Strength
of Lead-Calcium Alloys, by O. Heckler, W. Hufmann,
H. Brügelmann, 7 :p.

GERMAN, Ger, Metallkunde, Vol XXX, 1938, pp 419-
422.

SLA 58-69

Sci

Jul 59

72, 718

The Densities of Liquid Mg₂Pb and Mg₃Bl₂, by O.
Kubaschewski, R. Hörnle, 16 pp.

Full translation.

GERMAN, per, Metallkunde, Vol XLII, 1951, pp 129-132.

S.L.A.

Scientific - Chemistry

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Jul 55

Metallography of the Lighter Metals. IX Observations
on the Structure of Water-cooled Continuous-cast
Bars, 16 pp.

GERMANY, per, Metallkunde, Nov 1953, pp 489-494.

S.L.A. Tr No 334/1955

44, 977

Sci - Minerals/Metals
Jan 1957 CTS/dex

Properties of Metallic Melts. XIII. The Internal
Friction of Liquid Gold-Tin Alloys, by E. Gebhardt.

GERMAN, per, Metallkunde, Vol XLVII, 1956,
pp 684-687.

C.S.I.R.O.

Sci-Met

May 60

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Reichenbach, Ilse.

ON THE QUESTION OF CATALYZERS IN THE
METHANOL SYNTHESIS. [1962] 6p.
Order from SLA \$1.10

63-10422

Trans. of Metallbörse (Germany) 1929, v. 19,
p. 2861-2862.

DESCRIPTORS: *Catalysts, *Methanol, Synthesis,
Copper.

63-10422

I. Reichenbach, L

(Chemistry--Organic, TT, v. 10, no. 1)

Bureau of Technical Services

Gebauer, Karl and Sommer, Karl.
LIFE OF CHROMIC ACID BATHS CONTAINING
FLUOSILICIC ACID. [1963] 5p
Order from SLA \$1.10

TT-64-10203

Trans. of Metalloberflächen (West Germany) 1967
[v. 1] no. 2, p. 25-28.

DESCRIPTORS: *Silicic acids, Fluorides, Chromic
acid. *Electroplating solutions, Coatings, Life
expectancy. *Metallurgical laboratories,

(Metallurgy, TT, v. 11, no. 9)

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TT-64-10203
I. Gebauer, K.
H. Sommer, K.

Office of Technical Services

Hardness of Hard Chrome Coatings and Current Efficiency in Relation to Deposition Conditions, by Walter Eilender, Heinrich Arend, Erwin Schmidmann, 8 pp. UNCLASSIFIED

Full translation.

GERMAN, no per, reprint from Metalloberfläche, Mar 1948.

Navy Tr 650/Buships 496

Scientific - Minerals/Metals, chrome coatings

Dec 52 CTS/DEX

The Production of Hard Chrome Sliding Surfaces With
Good Running Qualities, by Karl Gebauer, 14 pp.
UNCLASSIFIED

Full translation.

GERMAN, no per, reprint from Metalloberfläche,
Aug 1948.

Navy Tr 691/BuShips 497

Scientific - Minerals/Metals, hard chromed sliding
surfaces

Dec 52 CTS/DEX

Descaling of Metals With Sodium Hydride, 5 pp.

GERMANY, per, Metallocberflache, Vol 1B, 1949, pp 53-54.

AEC/NAA-AL-1454

Scientific - Min/Metals

CIA/DRX

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Studies of Corrosion of Hard Chromium Deposits,
by W. Eilender, H. Arend, F. Sedrazil.

GERMAN, per, Metalleoberflache, Vol III, No 2,
1949, pp 32-35.

Bratcher Tr 2797

Scientific - Min/Metals

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Hard Chromium Deposits of Maximum Wear Resistance,
by W. Eilender, H. Arend, R. Schmidtmaier.

GERMAN, per, Metalloberflächen, Vol III, No 3,
1949, pp 57-59.

Brutcher Tr 230:

Scientific - New Metals

\$3.50

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Hard Chromium Plating of Cold Drawing Dies of Small
Diameters, by XXXXX W. Silender, R. Arend, P. Form.

GERMAN, Metalloberflache, Vol III, 1949, No 3,
pp 59-61.

Brutcher Tr No 2305

\$2.80

Scientific - Minerals/Metals

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The Role of the Structural Elements in the Anodic Oxidation of Aluminum Alloys, by Hellmut ~~Hermann~~ Fischer,
21 pp.

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pp Ally-Al25.

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S.I.A. Tr 3026/1956

Sci - Minerals, ~~Metals~~ Metals 40, 025
Oct 56 CPS

SA 51-2547

Modulus of Elasticity and Strength of Hard Chromium Deposits, by W. Kilander, H. Arend, E. Schmidtmann.

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Brutcher Tr 2572

Scientific - Min/Metals ~~_____~~ \$3.80
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Fatigue Tests on Hard Chromium Plated Specimens, by.
W. Eilender, H. Arend, E. Schmidtmann.

GERMAN, per, Metalloberfläche, Vol III, No 8, 1949,
pp 161A-163A.

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Bratcher Tr 2488

Scientific - Min/Metals

~~3.50~~ \$3.50

The Galvanizing Treatment of Aluminium, Part I and
II, by J. Fischer

GERMAN, per, Metalleoberflache, Vol III, No 11/12,
part Nov/Dec 1949, pp 117-121.

TPA3/TIB T 3979/3980

Scientific - Minerals/Metals
CTS/DEX

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The Use of Surface Pressing in the Clamping of
Fatigue Test Specimens, by G. Denkhan, 3 pp.

GERMAN, per, Metalloberflache, Vol IV, No 2,
Feb 1950, p 17.

S.L.A.

Scientific - Engineering CMS 68/May 55

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Surface Quality of Hard Chromium Plated Parts, by
W. Eilender, H. Arend, H. W. Dettmar.

GERMAN, per, Metalleoberflache, Vol IV, No 5, 1950,
pp 8 A-69-A-71.

Bratcher Tr 2532

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On the Hardness of Hard Chrome Coating, by Arend, 5 pp.
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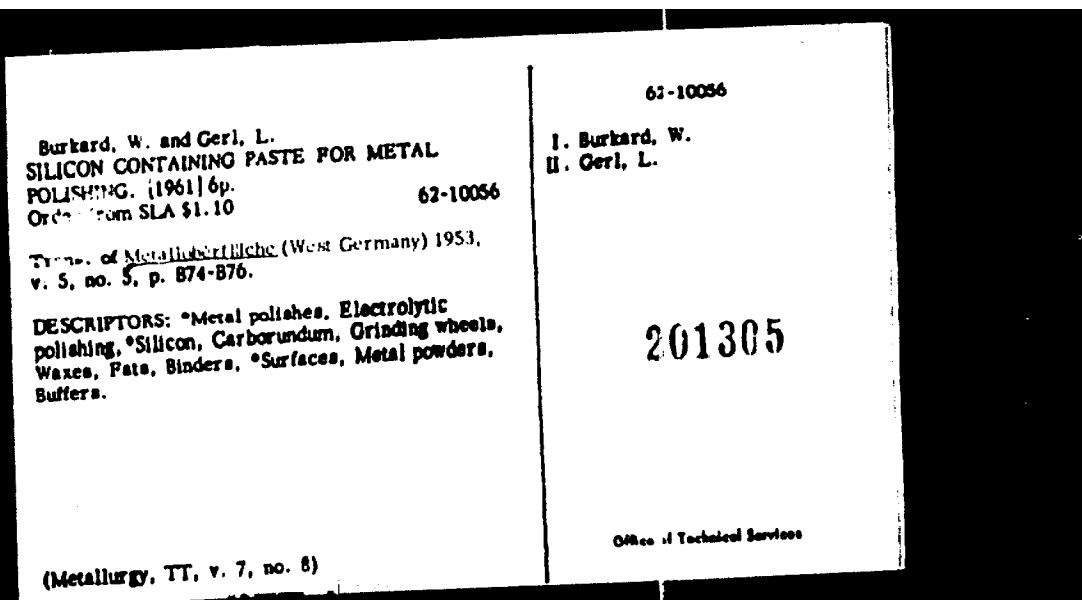
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